

## Station 4

### Explore and Elaborate

#### Today's Essential Questions:

- ✓ What determines sound volume?
- ✓ What determines sound pitch?
- ✓ Are sound pitch and sound volume related?

#### Activity 1: LOUDER!!

#### Questions:

- What factors affect the pitch of a vibrating object?
- What factors affect the volume of a vibrating object?

You will use **ONLY** rubber bands to do this investigation

- |             |                                                                                 |
|-------------|---------------------------------------------------------------------------------|
| Task One:   | List all of the variables that you can control with regard to the rubber bands. |
| Task Two:   | Develop a testable hypothesis for each of the questions above.                  |
| Task Three: | Develop a plan for testing your hypothesis for each question.                   |
| Task Four:  | Test your hypothesis, make observations, record data and conclusions.           |